SR CONSULTANTS AND ENGINEERS

Building & Highway Material Testing,
Geotechnical Investigation, Non Destructive Testing,
Soil Stabilization & Surveys.

CONCRETE CORE COMPRESSIVE STRENGTH REPORT

SRCE No. : SRCE-MT-056-2022-23
Date. : 13.07.2022

Client : **Bruhat Bengaluru Mahanagara Palike(BBMP).**
*Agency : **M/s NCC Limited**
Name of Work : White Topping Yelahanka from Sheshadripuram First grade College to Aroma Bakery Junction Via 3rd cross road, 1st A Main road, 16th B cross road
Location : Dairy circle junction to Chikkabommasandra junction
No.of Samples tested : 4 Nos
Grade of Concrete : **M 40**
Date of Sampling : 09.07.2022
Date of Testing : 13.07.2022
Technical Reference : IS:516-1959 (Reaffirmed 2018)

Details of Concrete Core	Identification*	Dia of Core (D) mm	Height of Core/thickness of core (H) mm	Core Wt in Kg	H/D	Correction factor (based on HD)	Failure load in KN	Core Strength N/mm^2	Corrected cylinder Compressive Strength N/mm^2 (based on Dia less than 100mm)	Corrected cylinder Compressive Strength N/mm^2 (based on HD)	Equivalent Cube Compressive Strength N/mm^2
WTP (CH : 1940 - LHS)	S1	95.00	125.00	1.998	1.32	0.96	260.60	36.77	39.71	38.12	47.65
WTP (CH : 1658 - RHS)	S2	99.00	130.00	2.113	1.31	0.96	329.10	42.75	46.17	44.33	55.41
WTP (CH : 1460 - LHS)	S3	95.00	135.00	2.119	1.42	0.96	264.20	37.27	40.25	38.64	48.31
WTP (CH : 1180 - RHS)	S4	95.00	130.00	2.570	1.37	0.96	234.60	33.10	35.74	34.32	42.89

Remarks

- This Test Report refers only to the sample collected at Site.
- This Certificate is valid at the time of and under the conditions specified herein.
- This Certificate may not be reproduced in Part, without the permission of this Laboratory.
- Any Correction invalidates this Certificate.

*** End of the Report ***

Asst. Executive Engineer
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Yelahanka Zone
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Job No.: CECTC/NCC/QC/2022-23

Date: 09.05.2022

KERB STONE (CORE) TEST REPORT

Client	:	**Bruhath Bangaluru Mahanagara Palike**
Agency	:	**NCC Limited**
Name of Work	:	White topping of Road from Sheshadripuram First Grade College To Aroma Bakery Junction via 3rd Cross Road, 1st A Main Road, 16th B Cross Road
Location	:	Dairy Circle junction to chikkabommasandra LHS & RHS Ch:1100 to 1980
No of Sample Tested	:	03
Date of Testing	:	09.05.2022
Technical Reference	:	IS:516(Part-IV):2016
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.06)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	65.00	0.312	2444.62	1.30	0.960	32.56	16.58	17.58	16.87	21.09
2	50.00	70.00	0.347	2524.65	1.40	0.960	33.89	17.26	18.30	17.56	21.95
3	50.00	75.00	0.362	2458.20	1.50	0.960	34.52	17.58	18.64	17.89	22.36

Note:

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For Civil Experts

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Authorised Signature

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Job No.: CECTC/NCC/QC/2022-23 Date: 20.05.2022

TEST REPORT OF PAVER BLOCKS

Name of Client* : **Bruhath Bangaluru Mahanagara Palike**
Agency : **NCC Limited**
Name of Work : White topping of Road from Sheshadripuram First Grade College To Aroma Bakery Junction via 3rd Cross Road, 1st A Main Road, 16th B Cross Road
Location : Dairy Circle junction to chikkabommasandra LHS & RHS Ch:1110 to 1980
Sample Identification : 100mm Thick Paver Blocks
Reference to BIS codes : IS : 15658:2006
Date of Testing : 20.05.2022

Compressive Strength:

Sl.No.	Area of the sample as worked out (Plan area) (mm^2)	Failure Load (kN)	Correction factor	Compressive strength (Kg/Sqm)	Apparent Compressive strength (Kg/Sqm)	Minimum Compressive strength (Kg/Sqm)
1	28500	802.3	1.24	281.51	349.07	281
2	28500	809.8	1.24	284.14	352.33	
3	28500	810.3	1.24	284.32	352.55	

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NCC LIMITED BANGALORE

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Job No.: CECTC-US-QC-2020-21

Date: 03.06.2022

TEST REPORT ON CEMENT CONCRETE BLOCKS

Client	**: Bruhath Bengaluru Mahanagara Palike.**
Contractor	**: NCC Limited**
Name of Work	: White topping of Road from Sheshadripuram First Grade College To Aroma Bakery Junction via 3rd Cross Road, 1st A Main Road, 16th B Cross Road
Location	: Dairy circle junction to chikkabommasandra junction-RHS Ch:1665 to 1760
Size of Block	: 400mm x 200mm x 200 mm
Cross Sectional Area	: 80000 mm^2
Test Method & Specification	: IS 2185 (Part 1) - 2005
No. of Blocks Tested	: 03

Sl.No.	Date of Sampling	Date of testing	Failure load (KN)	Compressive strength	Minimum required Compressive Strength of Individual Units
			kN	N/mm^2	N/mm^2
1	03.06.2022	03.06.2022	352.3	4.40	4.0
2	03.06.2022	03.06.2022	341.2	4.27	
3	03.06.2022	03.06.2022	345.6	4.32	

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Job No.: CECTC/NCC/QC/2022-23 Date: 06.04.2022

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Bruhath Bangaluru Mahanagara Palike**

Contractor : **NCC Limited**

Name of Work : White topping of Road from Sheshadripuram First Grade College To Aroma Bakery Junction via 3rd Cross Road, 1st A Main Road, 16th B Cross Road

Location : Dairy Circle junction to chikkabommasandra Ch:1100 to 1980 & Ch:1225 to 2980

Sample Identification : 8mm, 10mm & 12mm Fe500 TMT Bars

Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)

Date of test : 06.04.2022

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 500	8	0.398	502	550	17
2	Fe 500	10	0.636	512	562	18
3	Fe 500	12	0.898	523	574	19

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Job No: CECTC/NCC/QC/2022-23

Date:08.04.2022

TEST REPORT ON HDPE PIPE

CLIENT	:	**Bruhath Bangaluru Mahanagara Palike.**
AGENCY	:	**NCC Limited**
NAME OF THE WORK	:	White topping of Road from Sheshadripuram First Grade College To Aroma Bakery Junction via 3rd Cross Road, 1st A Main Road, 16th B Cross Road
LOCATION	:	Dairy circle junction to chikkabommasandra junction -RHS & LHS ch: 1100 to 1980
Material	:	**HDPE Pipes IS 4984:2016**
Size	:	**PE100-PN6.0 110mm Dia**

Sl. No.	Outer Diameter (mm)		Length (mm)	Ovality (mm)	Out of Squareness (mm)	Wall Thickness (mm)		Color of pipe	Blue Line (3Equispaced at 120° apart)	
									Width (mm)	Depth (mm)
Std →	Min 110.0	Max 110.70	Min NA	Max 2.2	Max 3.0	Min 5.9	Max 6.6	Black	Min 3.0	Max 0.2
1	110.35			2.1	2.6	5.95	6.30		3.0 to 4.0	0.1 to 0.2

Sl. No.	Tests	Requirement	Sample Size	Result	Remarks
1	Visual Appearance	Inside Outside surface should be satisfactory	100%	Satisfactory	Passed
2	Internal Pressure Creep Rupture Test (Hydraulic) @ 80°cs, 48 Hours Test Pressure 6.0 Kg/cm2	No Sign of localized swelling or leakage and no burst during the prescribed test duration	1	No Sign of localized swelling or leakage and no burst during the prescribed test duration	Passed
3	Reversion Test Test Temp :110 ± 2°for 1 hour	Maximum 3 %	1	2.26%	Passed
4	Oxidation Induction Time Test*	Min 20 Minutes	1	81.00 mins	Passed
5	Base Density*	930.0 to 960 Kg/m³	1	951.00kg/m3	Passed
6	Melt Flow Rate (MFR)*	0.20 to 1.10 gm/10min	1	0.405g/10min	Passed
7	Carbon Black Content*	2.5 ± 0.5 %	1	2.35%	Passed
8	Carbon Black Dispersion*	Uniform dispersion	1	By using microscope found Uniform Dispersion-Satisfactory	Passed
9	Elongation at Break	Min 350%	1	500.40%	Passed

OPINION: THE SAMPLE COMPLIES THE TEST AS PER THE STANDARD OF QUALITY IS 4984:2016
STORAGE OF PIPES: Satisfactory.

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Job No: CECTC/NCC/QC/2022-23

Date: 08.04.2022

TEST REPORT ON HDPE PIPE

CLIENT	:	**Bruhath Bangaluru Mahanagara Palike.**
AGENCY	:	**NCC Limited**
NAME OF THE WORK	:	White topping of Road from Sheshadripuram First Grade College To Aroma Bakery Junction via 3rd Cross Road, 1st A Main Road, 16th B Cross Road
LOCATION	:	Dairy circle junction to chikkabommasandra junction -RHS & LHS ch: 1100 to 1980
Material	:	**HDPE Pipes IS 4984:2016**
Size	:	**PE100-PN6.0 200mm Dia**

Sl. No.	Outer Diameter (mm)		Length (mm)	Ovality (mm)	Out of Squareness (mm)	Wall Thickness (mm)		Color of pipe	Blue Line (3Equispaced at 120° apart)	
									Width (mm)	Depth (mm)
Std →	Min 200.0	Max 201.2	Min NA	Max 4.0	Max 5.0	Min 9.6	Max 10.7	Black	Min 3.0	Max 0.2
1	200.6			3.6	4.7	9.9	10.0		3.0 to 4.0	0.1 to 0.2

Sl. No.	Tests	Requirement	Sample Size	Result	Remarks
1	Visual Appearance	Inside Outside surface should be satisfactory	100%	Satisfactory	Passed
2	Internal Pressure Creep Rupture Test (Hydraulic) @ 80°cs, 48 Hours Test Pressure 6.0 Kg/cm2	No Sign of localized swelling or leakage and no burst during the prescribed test duration	1	No Sign of localized swelling or leakage and no burst during the prescribed test duration	Passed
3	Reversion Test Test Temp :110 ± 2°for 1 hour	Maximum 3 %	1	2.61%	Passed
4	Oxidation Induction Time Test*	Min 20 Minutes	1	75.00 mins	Passed
5	Base Density*	930.0 to 960 Kg/m³	1	948.00kg/m3	Passed
6	Melt Flow Rate (MFR)*	0.20 to 1.10 gm/10min	1	0.395gm/10min	Passed
7	Carbon Black Content*	2.5 ± 0.5 %	1	2.30%	Passed
8	Carbon Black Dispersion*	Uniform dispersion	1	By using microscope found Uniform Dispersion- Satisfactory	Passed
9	Elongation at Break	Min 350%	1	498.50%	Passed

OPINION: THE SAMPLE COMPLIES THE TEST AS PER THE STANDARD OF QUALITY IS 4984:2016
STORAGE OF PIPES: Satisfactory.

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For Civil Experts

Authorised Signature

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No.: CECTC/NCC/QC/2022-23

Date: 24.05.2022

PRECAST SLAB (CORE) TEST REPORT

ent	:	**Bruhath Bangaluru Mahanagara Palike**
ncy	:	NCC Limited
me of Work	:	White topping of Road from Sheshadripuram First Grade College To Aroma Bakery Junction via 3rd Cross Road, 1st A Main Road, 16th B Cross Road
ation	:	Dairy Circle junction to New town bus stop RHS ch:1225 to 1980
of Sample Tested	:	03
of Testing	:	24.05.2022
inical Reference	:	IS:516(Part-IV)
e of Concrete	:	M_{20}

No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.06)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	70.00	0.335	2437.34	1.40	0.960	34.26	17.45	18.50	17.76	22.19
2	50.00	75.00	0.370	2512.53	1.50	0.960	36.21	18.44	19.55	18.77	23.46
3	50.00	65.00	0.325	2546.48	1.30	0.960	37.83	19.27	20.42	19.61	24.51

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NCC LIMITED BANGALORE

For Civil Experts

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Job No.: CECTC/NCC/QC/2022-23 Date : 11.04.2022

GRADATION FOR WMM
MORTH TABLE-400-11

Client : **Bruhath Bangaluru Mahanagara Palike**
Agency : **NCC Limited**
Name of Work : White topping of Road from Sheshadripuram First Grade College To Aroma Bakery Junction via 3rd Cross Road, 1st A Main Road, 16th B Cross Road
Location : Dairy Circle Junction to chikkabommasandra junction ch:1520 to 1580
Date of Testing : 11.04.2022
Material Type : Wet Mix Macadam

Oven Dry.Wt 13613

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	479	479	3.5	96.5	95-100
22.4	4215	4694	34.5	65.5	60-80
11.2	2856	7550	55.5	44.5	40-60
4.75	1986	9536	70.1	29.9	25-40
2.36	1489	11025	81.0	19.0	15-30
0.600	1326	12351	90.7	9.3	8-22
0.075	932	13283	97.6	2.4	0-8

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Job No.: CECTC/NCC/QC/2022-23 **Date:** 11.04.2022

Aggregate Impact Value

IS: 2386 Part IV

Client	**Bruhath Bangaluru Mahanagara Palike**
Agency	**NCC Limited**
Name of Work	White topping of Road from Sheshadripuram First Grade College To Aroma Bakery Junction via 3rd Cross Road, 1st A Main Road, 16th B Cross Road
Location	Dairy Circle Junction to chikkabommasandra junction ch:1520 to 1580
Type of Mix	Wet Mix macadam
Date of Testing	11.04.2022

Sl No.	Details	Trial No.			Average
		1	2	3	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	382	389	385	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	83	84	86	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	299	305	299	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	21.73	21.59	22.34	**21.89**

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

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Job No.CECTC/NCC/QC/2022-23 Date: 11.04.2022

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Bruhath Bangaluru Mahanagara Palike**
Agency	**NCC Limited**
Name of Work	White topping of Road from Sheshadripuram First Grade College To Aroma Bakery Junction via 3rd Cross Road, 1st A Main Road, 16th B Cross Road
Location	Dairy Circle Junction to chikkabommasandra junction ch:1520 to 1580
Technical Reference	IS 2386(Part 1) 1963 (RA 2021)
Type of Mix	Wet Mix Macadam
Date of Testing	11.04.2022

Result : Flakiness Index = **15.89%**

Elongation Index = **10.25%**

Result : Combined Flakiness & Elongation index **26.14%**

Comments:

→ Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 35%

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Job No.: CECTC/NCC/QC/2022-23 Date 13.04.2022

FIELD DENSITY TEST BY SAND REPLACEMENT METHOD
(IS : 2720 - Part 28)-1974

Name of Client	:	**Bruhath Bengaluru Mahanagara Palike.**
Name of Contractor	:	**NCC Limited**
Name of Work	:	White topping of Road from Sheshadripuram First Grade College To Aroma Bakery Junction via 3rd Cross Road, 1st A Main Road, 16th B Cross Road
Date of Testing	:	13.04.2022
Material Source	:	Wet Mix Macadam

Max.Dry Density g/cc	2.27
Optium Moisture Content (%)	6.20
Bulk Density of Sand g/cc(ys)	1.35 g/cc
Wt. of Sand in Cone gms	335 grams

DETERMINATION OF WET DENSITY

Test Holes No's	1	2
Chainage/Location	Dairy Circle Junction to chikkabommasandra junction ch:1520 to 1580	Dairy Circle Junction to chikkabommasandra junction ch:1520 to 1580
Wt of the Moist soil from excavated hole = W	2050	2120
Wt.of Cylinder+Sand before pouring (gm) (w1)	7495	7536
Wt.of Sand in the cone (gm) (w2)	335	335
Wt.of the Cylinder and sandfilling the excavated hole (w4)	5992	5984
Wt of the sand in the excavated hole wb=w1-w4-w2	1168	1217
Volume of Sand in Hole = (v=wb/Ys)=cm^3	865.2	901.5
Insitu Bulk density Wet excavated soil Y=w/v	2.37	2.35
Moisture Content (%)	5.50	5.00

DETERMINATION OF DRY DENSITY

Field dry Density (g/cc)	2.25	2.24
Field compaction achieved (%)	98.9	98.7
Required Compaction (%)	98	98

Asst. Executive Engineer
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Job No.: CECTC/NCC/QC/2022-23 Date: 11.04.2022

TEST REPORT ON CONCRETE CUBES

Client	**: Bruhath Bangaluru Mahanagara Palike**
Agency	**: NCC Limited**
Name of the work	: White topping of Road from Sheshadripuram First Grade College To Aroma Bakery Junction via 3rd Cross Road, 1st A Main Road, 16th B Cross Road
Location	: Dairy Circle Junction to chikkabommasandra junction ch:1225 to 1980- RHS
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516(Part-1/Sec-1):2021
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.04.2022	11.04.2022	8.198	362.5	16.11
2	04.04.2022	11.04.2022	8.178	385.0	17.11
3	04.04.2022	11.04.2022	8.165	396.8	17.64

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Job No.: CECTC/NCC/QC/2022-23 Date: 02.05.2022

TEST REPORT ON CONCRETE CUBES

Client	**: Bruhath Bangaluru Mahanagara Palike**
Agency	**: NCC Limited**
Name of the work	: White topping of Road from Sheshadripuram First Grade College To Aroma Bakery Junction via 3rd Cross Road, 1st A Main Road, 16th B Cross Road
Location	: Dairy Circle Junction to chikkabommasandra junctionch:1225 to 1980- RHS
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516(Part-1/Sec-1):2021
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.04.2022	02.05.2022	8.289	502.3	22.32
2	04.04.2022	02.05.2022	8.241	512.3	22.77
3	04.04.2022	02.05.2022	8.263	536.8	23.86

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Job No.: CECTC/NCC/QC/2022-23 Date: 12.04.2022

TEST REPORT ON CONCRETE CUBES

Client	**: Bruhath Bangaluru Mahanagara Palike**
Agency	**: NCC Limited**
Name of the work	: White topping of Road from Sheshadripuram First Grade College To Aroma Bakery Junction via 3rd Cross Road, 1st A Main Road, 16th B Cross Road
Location	: Dairy Circle Junction to chikkabommasandra junction ch:1100 to 1570 LHS
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516(Part-1/Sec-1):2021
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.04.2022	12.04.2022	8.201	365.2	16.23
2	05.04.2022	12.04.2022	8.223	341.8	15.19
3	05.04.2022	12.04.2022	8.263	336.2	14.94

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Job No.: CECTC/NCC/QC/2022-23 Date: 03.05.2022

TEST REPORT ON CONCRETE CUBES

Client	**: Bruhath Bangaluru Mahanagara Palike**
Agency	**: NCC Limited**
Name of the work	: White topping of Road from Sheshadripuram First Grade College To Aroma Bakery Junction via 3rd Cross Road, 1st A Main Road, 16th B Cross Road
Location	: Dairy Circle Junction to chikkabommasandra junction ch:1100 to 1570 LHS
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516(Part-1/Sec-1):2021
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.04.2022	03.05.2022	8.274	501.3	22.28
2	05.04.2022	03.05.2022	8.296	533.2	23.70
3	05.04.2022	03.05.2022	8.288	541.8	24.08

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Job No.: CECTC/NCC/QC/2022-23 Date: 15.04.2022

TEST REPORT ON CONCRETE CUBES

Client	**: Bruhath Bangaluru Mahanagara Palike**
Agency	**: NCC Limited**
Name of the work	: White topping of Road from Sheshadripuram First Grade College To Aroma Bakery Junction via 3rd Cross Road, 1st A Main Road, 16th B Cross Road
Location	: Dairy Circle Junction to chikkabommasandra junction ch:1108 to 1747
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516(Part-1/Sec-1):2021
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.04.2022	15.04.2022	8.224	362.8	16.12
2	08.04.2022	15.04.2022	8.263	341.2	15.16
3	08.04.2022	15.04.2022	8.245	362.5	16.11

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Job No.: CECTC/NCC/QC/2022-23

Date: 15.04.2022

TEST REPORT ON CONCRETE CUBES

Client	**: Bruhath Bangaluru Mahanagara Palike**
Agency	**: NCC Limited**
Name of the work	: White topping of Road from Sheshadripuram First Grade College To Aroma Bakery Junction via 3rd Cross Road, 1st A Main Road, 16th B Cross Road
Location	: Dairy Circle Junction to chikkabommasandra junction ch:1108 to 1747
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516(Part-1/Sec-1):2021
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.04.2022	15.04.2022	8.224	362.8	16.12
2	08.04.2022	15.04.2022	8.263	341.2	15.16
3	08.04.2022	15.04.2022	8.245	362.5	16.11

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Job No.: CECTC/NCC/QC/2022-23 Date: 06.05.2022

TEST REPORT ON CONCRETE CUBES

Client	**: Bruhath Bangaluru Mahanagara Palike**
Agency	**: NCC Limited**
Name of the work	: White topping of Road from Sheshadripuram First Grade College To Aroma Bakery Junction via 3rd Cross Road, 1st A Main Road, 16th B Cross Road
Location	: Dairy Circle Junction to chikkabommasandra junction ch:1108 to 1747
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516(Part-1/Sec-1):2021
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.04.2022	06.05.2022	8.263	532.6	23.67
2	08.04.2022	06.05.2022	8.241	541.2	24.05
3	08.04.2022	06.05.2022	8.263	551.6	24.52

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Job No.: CECTC/NCC/QC/2022-23 Date: 18.04.2022

TEST REPORT ON CONCRETE CUBES

Client	**: Bruhath Bangaluru Mahanagara Palike**
Agency	**: NCC Limited**
Name of the work	: White topping of Road from Sheshadripuram First Grade College To Aroma Bakery Junction via 3rd Cross Road, 1st A Main Road, 16th B Cross Road
Location	: Kanti sweets to New town bus stop -RHS ch:1109 to 1980
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516(Part-1/Sec-1):2021
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.04.2022	18.04.2022	8.198	374.2	16.63
2	11.04.2022	18.04.2022	8.152	358.4	15.93
3	11.04.2022	18.04.2022	8.163	374.5	16.64

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